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IMPERIAL MYCOLOGICAL INSTITUTE 23 MAY 1938

ROME
VILLA UMBERTO I
1938

NOTICE

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IMPORTANT

Prices of publications issued on or after 1 January, 1938 are post free.

JUST OUT:—

LA LÉGISLATION DU COMMERCE DES PLANTES

(PUBLISHED IN FRENCH ONLY)

This new edition (second) is considerably more complete than the preceding one. In fact, this volume includes 60 countries instead of 37, and it may be said that it is truly universal. The countries dealt with are the following in French alphabetical order: Germany, Argentina, Commonwealth of Australia, Belgium, Belgian Congo, Brazil, Bulgaria, Canada, Costa Rica, Denmark, Egypt, Estonia, United States of America, Puerto Rico, Finland, France, French Equatorial Africa, French West Africa, Algeria, Indo-China, Morocco, Tunis, United Kingdom, Scotland, Ceylon, Gold Coast, Jamaica, Kenya, British Malaya, Palestine, Southern Rhodesia, Tanganyika, Greece, Guatemala, Haiti, Hungary, India, Iran, Ireland, Italy, Eritrea, Somaliland (Italian), Japan, Lithuania, Luxemburg, Mexico, Norway, Netherlands (The), Netherlands East Indies, Nicaragua, Poland, Portugal, Romania, Sweden, Switzerland, Czechoslovakia, Turkey, U. S. S. R., Union of South Africa, Uruguay, Yugoslavia.

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ROME — PRINTING OFFICE 'DITTA CARLO COLOMBO'

NOTES ON THE INTERNATIONAL INSTITUTE OF AGRICULTURE

PRESS COMMUNICATIONS

Agricultural Social Income in the Different Countries. — In the January, February, and March, 1938, numbers of the *Monthly Bulletin of Agricultural Economics and Sociology*, the International Institute of Agriculture published three articles on the economic or social income according to the farm accountancy results supplied and the variations which have taken place from 1932-33 to 1933-34 in the following countries:— Germany, Switzerland, Austria, Czechoslovakia, Poland, Lithuania, Latvia, Estonia, Finland, Sweden, Norway, Denmark, the Netherlands, Scotland, France, Hungary and Rumania.

In the first article are studied the variations which have occurred in the social income, the gross return and in the farming expenses of farms mainly engaged in live stock production; in the second, the same variations in farms engaged chiefly in crop production, and in the third article, the same variations in all types of farms in Poland, Czechoslovakia, Lithuania, Latvia and Estonia.

The measures taken by the Governments for the assistance of the farming classes began to take effect in 1933-34. Gross returns increased and expenses were reduced. In some countries, the prices of farm requirements have fallen, in others, the taxes, interest on debts, and the costs of hired labour have been reduced. Social income has decreased in Lithuania, Poland and Czechoslovakia owing to the fall in prices of agricultural products.

These articles continue a series of studies published in 1937 in the *Monthly Bulletin of Agricultural Economics and Sociology*, Nos. 5, 6 and 7, and will be followed each year by further articles on the same subject, in this way enabling the development of agricultural social income in different countries to be studied.

International Chronicle of Agriculture. — As from January 1938, the *International Institute of Agriculture* is publishing, in its *Monthly Bulletin of Agricultural Economics and Sociology*, an *International Chronicle of Agriculture*.

The chronicle consists chiefly of separate descriptions of the agricultural policies adopted by the various counties. Each is divided into two parts, preceded by a short introduction. The introduction sketches very briefly the development of the economic and agricultural conditions during the period reviewed. It is followed by a section on " measures affecting prices and markets " which deals with the principle measures of commercial and agricultural policy which aim at the control of the markets and regulation of prices of the principal agricultural products. Another section entitled " General agricultural policies " deals with all other important forms of governmental intervention in the realm of agriculture and rural life in general.

Important events of an international character which may occur during the period covered by the chronicle, such as international agreements relating to agri-

cultural products, will be treated in a special section reserved for them under the title "International Activity" which will precede the notes on the individual countries.

In the January number of the Chronicle notes have been published on agricultural policies in Belgium, France and the United Kingdom, and in the February number on Germany, Canada, Ireland, and Switzerland. The March number, in course of preparation, includes notes on the United States, Italy, Denmark, New Zealand and the French colonies.

All these notes cover the period since the summer of 1937, thus taking up the story of agricultural policy where it was left in the last volume of the series *The World Agricultural Situation* published by the Institute.

World sugar production and markets. — The International Institute of Agriculture gives the following information on world sugar production and markets.

The production of beet-sugar, which is centred almost entirely in Europe, the Soviet Union and North America, appeared larger and larger as the manufacturing season advanced. The season is now almost finished and it may be stated that the production of beet-sugar in 1937-38 is the largest since the War, with the exception of 1930-31.

The Soviet Union has a record production of about 2.5 millions metric tons of raw sugar, or 85 per cent. larger than the average of the five years 1931 to 1935 The other European countries have for the most part shown increases ranging up to 50 or even 100 per cent. above the average. In spite of the rather unsatisfactory results in certain countries, the most important of which are France and Great Britain, the total European production of raw sugar is a million metric tons or 16 per cent. higher than the average of 1931 to 1935.

This result is due essentially to a heavy increase in beet production in the largest producing countries except France, namely in Germany, Czechoslovakia, Poland, and also to some extent to increases in certain minor European producers.

The production of the two North American producing countries, United States and Canada, is very slightly below the average.

The total world production of beet-sugar including the Soviet Union, this year should exceed 11 million metric tons. This figure is 0.9 million or 9 per cent. larger than last year, 25 per cent. above the average of 1931-1935. and within 0.4 millions of the record of 1930.

In addition to this very large production of beet-sugar, it seems certain that there will also be an abundant production of cane-sugar. This year's production should be almost equal to last year's and exceed that of all earlier years.

In short, the total production of beet and cane sugar in the 1937-38 season seems to be equal to or higher than the maximum reached in 1930-31.

This production may well disturb the world sugar market. Already a decline in sugar prices is reported, which is especially serious on the New York market, but was also appreciable in London and Prague at the end of 1937. Quotations of Cuban sugar on the New York Exchange fell in Decdember 1937 to the average level of 1935; though prices were better maintained on other markets and were even at times high, the drop of American prices represents a serious symptom, which might reasonably cause fears of another crisis on the world sugar market.

Since May 1937, however, there has existed an agreement concluded at London between the great majority of producing countries, which aims at fixing the export quotas of producing countries for a period of five years; it also covers the regulation of the free market between certain importing countries and their colonies or dependencies. It is more extensive and more flexible than the "Chadbourne plan" of 1930, and is designed in principle to maintain the equilibrium between the world supply and demand of sugar.

PUBLICATIONS OF THE INTERNATIONAL INSTITUTE OF AGRICULTURE

ON SALE:—

INVESTIGATIONS INTO THE MARGIN BETWEEN PRODUCERS' AND CONSUMERS' PRICES OF CERTAIN FOODSTUFFS

[1937, 108 pp., 4°. — Rome, International Institute of Agriculture].

PRICE: **10 lire.** Postage included.

This is the first volume of the series of the Institute's Contributions to the Study of the Problem of Nutrition, undertaken in response to the initiative of the League of Nations (Mixted Committee on the Problem of Nutrition).

The present Report, in Part I, contains a brief general survey of the problem in its various aspects on the basis of the information collected and studied for a certain number of countries. Part II of the Report contains an exposition of the inquiries made and of the results obtained in the investigation of price spreads in the different countries. The countries for which it has been possible to collect and to present information are Austria, Canada, Denmark, Finland, France, Germany, the Netherlands, Norway, Poland, Switzerland, the United Kingdom and the United States.

It is hoped that, though the material available is rather scarce, and is somewhat lacking in uniformity, this inquiry will throw some light upon a highly important problem, which, though often discussed, has seldom been throughly investigated.

JUST OUT:—

AGRICULTURAL EDUCATION IN THE WORLD

Vol. III: NORTH AMERICA

(BILINGUAL EDITION)

[1938, XVI + 280 pp., 8vo. — Rome, International Institute of Agriculture].

PRICE: **25 lire.** Postage included.

This volume is the third of the series on *Agricultural Education in the World.* It will be recalled that the first two volumes dealt with agricultural education in the countries of Europe. This monograph includes the following 4 countries: Canada, United States of America, Mexico, Newfoundland. The text is in both French and English. Each country is treated in a uniform manner:— historical review of agricultural education, general survey of the present organization of instruction, detailed study of the principal institutions, schools, colleges or University divisions giving practical and scientific instruction.

JUST OUT:—

LES ALEURITES ET L'INDUSTRIE DE L'HUILE DE BOIS DE CHINE DANS LE MONDE

[1938, XII + 256 pp., 8vo. — Rome, International Institute of Agriculture].

PRICE: **20 lire.** Postage included.

(ENGLISH EDITION TO BE PUBLISHED SHORTLY)

This monograph is the third of a series treating on special subjects of a definite topical interest. The first two volumes of this series covered the cultivation and uses of soybean throughout the world, and leguminous plants utilized as green manure, as cover and as shade.

The monograph is divided into four parts: I. The cultivation of *Aleurites* — II. Present state of this cultivation in the different countries. — III. Technological study of Chinese wood oils — IV. Trade in Chinese wood oils.

As may be seen, this monograph is not limited to the study of purely technical questions but also deals with the economic and commercial problems regarding this subject.

Particular attention is drawn to the second part in which the information given is of an original character, being assembled from the data received in response to an enquiry carried out by the Institute among the different producing countries. In the first section, cultivation is treated in general. In the part dealing with the technology of the oils, full details have been given on the special characteristics of each type of wood oil and the trade specifications to which they should correspond. In the fourth part, a concise though comprehensive review is given of commercial activities in wood oils.

The monograph is completed by an exhaustive bibliography which includes the principal studies of recent date on this question.

IN THE PRESS:—

FARM ACCOUNTANCY STATISTICS

FOR 1934-1935

VIIth VOLUME OF THE SERIES

(The first six volumes refer to the following years: 1927-28, 1928-29, 1929-30 1930-31, 1931-32, 1932-33/1933-34)

Each volume is the result of an enquiry, made in the Farm Accountancy Offices in the different countries, the object being to have in as comparable a form as possible a series of international statistics, based on Farm Accountancy Data.

This publication is all the more important since it illustrates several of the most difficult problems of economy, farming, agrarian policy and the evolution of the farming industry under the influence of the changing conditions of markets.

The radio communiqués of the International Institute of Agriculture will be transmitted between 2.45 and 2.52 p. m. on the following days: Thursday, English ***and*** German; ***Saturday,*** Spanish; ***Tuesday,*** Italian ***and*** French.

They will be broadcast from Rome II (245.5 m.) and Rome 2 RO 4 (25.4 m.).

The hour of broadcasts is in Central European Time, which is one hour ahead of Greenwich Mean Time, and 5 hours ahead of Eastern Standard Time in the United States.

INTERNATIONAL BULLETIN OF PLANT PROTECTION

1938 No. 5

DISCOVERIES AND CURRENT EVENTS *

England and Wales: New and Interesting Phytopathological Records for the Year 1937 †

The Chrysanthemum Midge, *Diarthronomyia* sp., a foreign pest which was found on a number of nurseries in England in 1928, was again discovered in 1937, in several nurseries in the South of England, and in one in South Wales, one in Somerset, and one in Essex. There is little doubt that the pest was imported with chrysanthemum cuttings from abroad, and the Ministry is taking steps to secure its eradication.

In June, 1937 a severe attack by the Downy Mildew, *Peronospora antirrhini* Schroet., was observed among some 8,000 seedlings of the cultivated *Antirrhinum majus* in a nursery on the South coast of England, near Brighton. Most of the seedlings were still in boxes, and they were burnt immediately, together with the soil and boxes. An attempt was also made to remove and destroy affected plants that had already been planted out. The disease did not spread to any noticeable extent, and no other authentic case of it has been seen. *P. antirrhini* is found on the wild *A. orontium* in Europe but the only previous record of its occurrence on cultivated plants appears to be one from the Irish Free State in 1936 (see this *Bulletin*, 1937, No. 8, p. 176).

Eritrea: Locusts §

During the month of February, 1938, no locusts were reported in the Colony.

* Under this and the next heading the countries are arranged in French alphabetical order.

† Communication from the Ministry of Agriculture and Fisheries, London, official correspondent of the Institute.

§ Communication from Dr. LUIGI BOLOGNA, Acting Chief of the Agricultural Bureau of Eritrea, Asmara, transmitted to the Institute by the Government of the Colony.

United States of America: Bark Canker of Monterey Cypress *

A new destructive disease, Cypress bark canker, caused by a species of fungus for which the name, *Coryneum cardinalis* Wagener, has been proposed, has been found in artificial plantings of the Monterey cypress, *Cupressus macrocarpa* Gordon, over about two-thirds of the State of California. Dr. Willis W. Wagener has made a critical study of the disease and the causal agent. It has not yet appeared in either of the only two existing natural stands of this tree located respectively on Point Lobos and Cypress Point on the Monterey Peninsula, but it has been destructive in windbreak and ornamental plantings of Monterey cypress within a few miles of them. Every effort is being made by citizens and scientists alike to check the further spread of the disease which threatens this famous American tree species with extinction. It has also been found on introduced Italian cypress, upon which it is less virulent. Laboratory tests have shown that other related conifers may be susceptible, but so far, they have not been found infected in the open.

Southern Rhodesia: Locust Invasion, 1932-1938 †

Monthly Report No. 62. January, 1938.

During January, 1938 swarms of the Red Locust (*Nomadacris septemfasciata* Serv.) have been present in various parts of the Colony, and egg-laying has been reported in the following districts, namely:— Sebungwe, Lomagundi, Darwin, Mazoe, Mrewa, Mtoko, Hartley, and Gwanda.

Egg-lawing is reported to have been fairly general on farms in the Concession section of the Mazoe District and also in parts of the Urungwe section of the Lomagundi District, but elsewhere on the higher veld the deposits appear to be scattered and more or less isolated.

Considerable breeding appears, however, to be taking place in the low veld of the Zambezi Valley in the Darwin and Lamagundi Districts, where hoppers have already appeared.

Birds have been reported as active in pursuit of the swarms and one sample of locusts infested with maggots has been received. There is as yet no sign of *Empusa*.

Serious damage to young maize has occurred on several farms.

No general outbreak of hoppers is to be anticipated, but locally serious hatchings are liable to occur.

Italian Somaliland: Locusts §

No locusts were reported during the months of January, February and March, 1938 in the Colony.

* Communication from the official correspondent of the Institute, Mr. H. A. Edson, Principal Pathologist in Charge, Division of Mycology and Disease Survey, Bureau of Plant Industry, United States Department of Agriculture, Washington.

† Communication from the official correspondent of the Institute, Mr. Rupert W. Jack, Chief Entomologist, Agricultural Laboratory, Department of Agriculture, Salisbury, Southern Rhodesia.

§ Communication from Dr. Luigi Bozzi, Acting Chief of the Agricultural Bureau of Italian Somaliland, Mogadiscio, transmitted to the Institute by the Government of the Colony.

VARIOUS QUESTIONS

Decisions and Recommendations of a Technical Order Adopted at the IIIrd Conference of the International Committee for the Mutual Study of the Control of the Colorado Beetle (*Leptinotarsa decemlineata*).

Besides the decisions of an interior or administrative character, the IIIrd Conference of the International Committee for the mutual study of the control of the Colorado beetle, held at Zurich from 3 to 5 March, 1938, has adopted the following decisions and recommendations of technical importance:—

Professor R. Mayné having proposed to reserve to the competent biologists engaged in meteorology, the role of reporting on the Colorado beetle in the different contaminated countries, the International Committee expresses the desire that each country shall adopt this proposal with a view to establishing a more complete and rapid system of prognostics.

The International Committee decides that it would be advisable to designate on the maps the localities where the Colorado beetle has been found by the following signs:—

(1) One or several imagos have been found . . . . . △

(2) One imago together with eggs, or
one imago together with eggs and larvae none of which have penetrated into the soil (superficial focus) . . . . . ○

(3) Insect in any stage provided that the larvae have penetrated into the soil (attached focus) . . . . . |////|

(4) An attached focus where the insect has not reappeared at the end of the year following its discovery (such a focus is considered as being extinct) . . . . . □

All contaminated zones not situated in one cultivated field provided that between them a decided solution of continuity exists should be considered as 'distinct' contaminated zones. In small gardens, where more or less numerous neighbouring plots are cultivated with potatoes and may be invaded simultaneously, each case should be determined using common sense judgement.

The International Committee decide, in regard to the service of information between delegates, to consider as a focus any zone where the insect is discovered in any stage whatsoever of its development.

In consequence of the errors occasionally made regarding the use of the term 'generation' of the Colorado beetle, the International Committee considers it expedient to point out that by 'generation' is intended the complete life-history of the insect from the egg up to the pairing and the subsequent oviposition. In consequence, the first spring insects emerging from the soil should not be

considered as pertaining to the first generation, as this only begins with the eggs and larvae resulting from the multiplication of these insects of first apparition (over-wintering).

The International Committee expresses the desire that as far as possible the common name of the insect should be adopted as follows:— doryphore (French), dorifora (Italian), Kartoffelkäfer (German), etc.

The International Committee requests the International Commission for entomological nomenclature to maintain the scientific name of the Colorado beetle as *Leptinotarsa decemlineata* Say.

The standard method of control of the Colorado beetle for the year 1938, also adopted at the aforesaid Conference, has already been published in the issue of April, 1938 of this *Bulletin* (pp. 76-78).

The organization of a special meeting to be devoted to questions regarding the Colorado beetle on the occasion of the VIIth International Entomological Congress to be held in August, 1938, will be considered.

The fourth annual Conference of the International Committee will take place in the Netherlands, during the first quarter of 1939.

LEGISLATIVE AND ADMINISTRATIVE MEASURES

Algeria. — By Decree of 22 June, 1937, the import of cut flowers from France may only be effected through the ports of Oran, Mostaganem, Algiers, Bougie, Philippeville and Bône, on the condition that the consignments are accompanied by a statement by the sender or a copy of the trade invoice giving the names and addresses of senders and consignees, place of origin, the name, weight, stamps and number of packages, the nature of the merchandise.

On arrival, the consignments in question are subjected to inspection by the officers of the Plant Protection Service, who authorize free circulation, if the flowers are recognized as healthy, their destruction or return, according to the wish of the importer, in the contrary case. (*Journal Officiel de l'Algérie*, Alger, 2 juillet 1937, 11e année, nº 27, p. 650).

Germany. — A Decree of 29 October, 1937, come into force on 15 November, 1937, gives a uniform basis to the control of fruit pests and diseases.

In accordance with this Decree, dead trees or trees in a state of decay as well as trees seriously attacked by diseases and pests should be eliminated; trees which owing to their exaggerated height prevent them from being maintained in a healthy state should also be removed.

Accurate pruning of the trees should be carried out. Mistletoe [*Viscum album*], witches' broom of cherry [*Taphrina cerasi*], caterpillar nests and mummi-

fied fruits should be removed, and the trees should also be freed from moss, lichen and old bark.

The police and plant protection authorities are commissioned to ascertain that these measures are carried out. The authorities, if the interested parties do not carry out the necessary operations, may execute them themselves or cause then to be executed at the expense of the said persons.

Infringements of this Decree shall be punished by a term of imprisonment up to two years or by a fine. In the case of infringement caused by negligence, on the guilty person will be inflicted a term of imprisonment or a fine amounting to a maximum of 150 RM.

All the measures decreed on this question by the authorities of the different States of Germany and previous to 1 September, 1937, are abrogated. (*Amtliche Pflanzenschutzbestimmungen*, Berlin, 1. Dezember 1937, Bd. IX, Nr. 9,S. 175-177).

*** By Ministerial Regulation of 10 November, 1937, modifying the Decrees of 28 March, 1929 and 30 September, 1932 [see this *Bulletin*, 1929, No. 6, p. 83, and 1932, No. 12, p. 205] with a view to preventing the introduction of the carnation leaf roller [*Tortrix pronubana*], the import of carnations (cut flowers) is authorized from 15 November, 1937 instead of from 30 November. (*Nachrichtenblatt für den Deutschen Pflanzenschutzdienst*, Berlin, Anfang Dezember 1937, 17. Jahrg., Nr. 12, S. 99).

*** On 1 December, 1937, a list was published of the official experts charged to carry out at the custom-houses inspection of imported plant products in respect of wart disease of the potato [*Synchytrium endobioticum*], grape phylloxera [*Phylloxera vastatrix*], cherry fruit fly [*Rhagoletis cerasi*], San José scale [*Aspidiotus perniciosus*], and apple maggot [*Rhagoletis pomonella*]. This list supersedes that published on 1 August, 1934 [see this *Bulletin*, 1934, No. 11, p. 247]. (*Amtliche Pflanzenschutzbestimmungen*, Berlin, 1. Dezember 1937, Bd. IX, Nr. 10 [Schlussnummer], S. 184-212).

Argentine Republic. — By Decree No. 121.087 of 9 December, 1937, the word 'papa' is to be substituted for 'patata' in all official documents where mentioned therein. (*Boletín Oficial de la República Argentina*, Buenos Aires, 3 de enero de 1938, año XLVI, núm. 13.040, pág. 10).

*** By Decree No. 122.232 of 22 December, 1937, the 'Dirección de Defensa Agrícola' is authorized to assume temporary labour engaged for the purpose of moving materials and for other operations necessary in the present campaign against the South American locust [*Schistocerca paranensis*] and is to have at its disposal the sum of 300,000 'pesos' for payment of the said labour. (*Ibid.*).

Australia (New South Wales). — The Act No. 38, 1937, assented to 23 December, 1937 and which may be cited as the 'Local Government (Noxious Plants) Amendement Act, 1937', makes further provision with respect to the eradication of noxious plants and the suppression and destruction of noxious animals; authorizes the leasing upon terms and conditions providing for the erad-

ication of noxious plants of certain lands allotted, reserved, or dedicated by the Crown for the purpose of a common or for any other public purpose; amends the Local Government Act, 1919, and certain other Acts, etc. (New South Wales. Anno secundo Georgii VI Regis. *Act No.* 38, *1937*. Sydney, 1938, 24 pp.).

Australia (**Queensland**). — The Act (No. 7, assented to 17 September, 1937 and which may be cited as ' The Plague Grasshoppers Extermination Act of 1937 ', provides for the extermination of *Chortoicetes terminifera* and any other species of Acridiidae. (*Queensland Government Gazette*, Brisbane, 20th September, 1937, No. 73, pp. 787-797).

*** The Act No. 16, assented to 18 November, 1937 and which may be cited as ' The Diseases in Plants Acts and Another Act Amendment Act of 1937 ', amends ' The Diseases in Plants Acts, 1929 to 1935 ' and ' The Banana Industry Protection Act of 1929 ' in certain particulars of administrative character. (*Ibid.*, 23rd November, 1937, No. 143, pp. 1541-1544).

Belgium * — The offices of the Belgian Official Phytopathological Service previously installed at 15, Boulevard de l'Horticulture, Gand, have been transferred as from 11 April, 1938, to 11, Boulevard du Parc, in the same city.

Egypt. — By Decree of 18 December, 1937, *Chrysomphalus personatus* has been declared an insect harmful to fruit trees.

The governorships of Alexandria and Damietta, the moudirieh of Behera and the markaz of Farascur (moudirieh of Dakahlieh) are infested by this scale insect.

The transport, by any means whatsoever, of plum trees, guava trees, banana plants, mango trees, *Citrus* spp., *Aralia*, *Laurus nobilis*, *Ficus* spp., *Myrtus communis*, *Latania*, *Canna* spp., *Ruscus aculeatus*, *Phoenix* spp., *Rosa* spp., *Cycas revoluta* and *Ligustrum* spp., as well as any parts of these plants and their fruits from infested localities to any other district is prohibited. Transport, however, may be permitted on special authorization issued by the Ministry of Agriculture.

In the infested localities, application may be made of the measures provided in Articles 8 and 9 of Law No. 16 of 1916, particularly the treatment of the trees by fumigation or spraying until certified as free from pest by the Ministry of Agriculture. Where the proprietor may not wish to carry out fumigation or any of the other proposed control measures for all or partof the trees in his garden, he will be required to uproot and burn these trees, if not, all the trees will be treated without exception. Before commencing the abovementioned measures, the trees should be spaced and pruned by the proprietor; in the contrary case, these operations will be executed at his expense by officers of the Ministry. (*Journal Officiel du Gouvernement Egyptien*, Le Caire, 27 décembre 1937, 64e année, nº 119, p. 2-3).

* Communication from the Ministry of Agriculture, Brussels, to the International Institute of Agriculture.

Ecuador. — By 'Acuerdo' No. 97 of 22 March, 1937, the regulations relative to the delivery of health certificates for plants, animals and their derivatives intended for export, are established. (*Registro Oficial*, Quito, 19 y 20 de noviembre de 1937, año I, núms. 21 y 22, págs. 2291 y 2292).

United States of America. — Amendment No. 3 of rules and regulations governing the importation of cotton and cotton wrappings into the United States, dated 11 December, 1937, effective on and after the same date, concern the revision of regulation 2 relative to applications for permits. (*B. E. P. Q. — Cotton Regs.*, [Washington], 1938, 2 pp.).

Hungary * — The Royal Hungarian Ministry of Agriculture has decided that the Hungarian Service for Plant Protection ('Magyar Királyi Növényvédelmi Szolgálat'), established following the International Convention for Plant Protection, signed at Rome on 16 April, 1929 [see this *Bulletin*, 1929, No. 4, pp. 50-55], shall be modified and nominated Official Phytosanitary Service ('Hivatalos Növényegészségügyi Szolgálat').

The duties of the said Service are those determined by the Rome Convention, as well as those deriving from the different Hungarian aws Land Decrees relative to plant protection.

The documents of the Service will be issued under the new denomination 'Magyar Királyság. Hivatalos Növényegészségügyi Szolgálat' (Kingdom of Hungary. Official Phytosanitary Service).

India. — By Notification No. F. 313-37-A., dated 26 August, 1937, the form of certificate, published in the Notification No. F. 320/35-A., dated 20 July, 1936 [see this *Bulletin*, 1937, No. 5, pp. 93-95], to accompany consignments of plants intended for export from India has been amended. (*Agriculture and Live-stock in India*, Delhi, January, 1938, Vol. VIII, Pt. I, p. 89).

*** By Notification No. D. 2715-4/37, dated 21 October, 1937, in the second proviso to paragraph 4 of the Notification No. F. 320/35-A., dated 20 July, 1936, for the letters and words 'Mr. M. K. Seetharama Chetty' and 'Mr. Seetharama Chetty' the letters and words 'Dr. L. S. Doraswami' and 'Dr. Doraswami' shall be substituted respectively. (*Ibid.*).

*** By Notification No. F. 46-4/37-A., dated 3 November, 1937, it is notified for general information that the expression 'plant' wherever it occurs in the Notification No. 360 of 29 February, 1924 and in those issued subsequently, amending or amplifying it, includes fruit. (*Ibid.*).

French Indo-China. — A Decree of the President of the French Republic, dated 8 December, 1937, regulates, in Indo-China, the trade in products utilized

* Communicalion from the Royal Legation of Hungary in Italy to the International Institute of Agriculture.

for the destruction of crop diseases and pests (insecticides, fungicides, etc.). (*Journal officiel de la République française*, Paris, 14 décembre 1937, LXIX[e] année, n° 2891, p. 13625-13626).

Italy. — By Law No. 54 of 31 January, 1938, has been transformed into Law the Royal Decree-Law No. 1941 of 27 October, 1937 [see this *Bulletin*, 1938, No. 3, p. 55] exempting from tax the sale of lubricating oils employed in the manufacture of products utilized in the control of fruit tree pests. (*Gazzetta Ufficiale de Regno d'Italia*, Roma, 25 febbraio 1938, anno 79°, n. 46, p. 749).

*** A Ministerial Decree of 12 February, 1938, modifying Article 3 of the Ministerial Decree of 20 May, 1926, relative to the compulsory control of *Thaumetopoea pityocampa* dispose that the measures and methods of control of this parasite shall be determined by the Royal Observatories for plant diseases, in accordance with the provincial chief officers of the national forest Militia as well as the provincial inspectors of agriculture.

The supervision of the operations and the execution of official control, at the expense of infractors or persons delaying carrying out the said operations, will be assured by the staff of the national forest Militia when control is required in the wooded zones and by the staff of the provincial inspection services of agriculture when it is a question of isolated plants or trees situated in paths, parks and gardens. (*Ibid.*, 29 marzo 1938, n. 72, p. 1213).

*** The Ministry of Agriculture and Forests has published the list of communes of the Kingdom declared to be infested or suspected of being infested by grape phylloxera [*Dactylosphaera vitifolii*] up to 31 December, 1937. (*Bollettino Ufficiale del Ministero dell'Agricoltura e delle Foreste*, Roma, 16 gennaio 1938, anno XVI, n. 2, pp. 134-152).

Morocco (French Zone of). — Two Decrees of the Director of Economic Affairs, dated 9 December, 1937, authorize the organization of Syndical Associations for the control of plant parasites at Mont-Fleuri and Dar-Debibarh (civil control of Fès-banlieue) [see this *Bulletin*, 1937, No. 10, p. 228]. (Empire chérifien. Protectorat de la République française au Maroc. *Bulletin Officiel*, Rabat, 24 décembre 1937, XXVI[e] année, n° 1313, p. 1656-1658).

Mexico. — The ' Sigatoka ' disease (*Cercospora musae*) known locally as ' Chamusco ', having invaded the principal banana growing areas of the country *viz.*, Tabasco State and the regions of Soconusco and Mapastepec of Chiapas State, the regulation approved on 11 December, 1937, establishes the measures to be taken for the control of this disease. (*Diario Oficial*, Mexico, 15 de diciembre de 1937, tomo CV, núm. 38, págs. 4 a 6).

New Zealand. — By the Orchard and Garden Diseases Act Extension Order, 1937, dated 27 July, 1937, downy mildew of hop (*Pseudoperonospora humuli*), bean wilt (*Bacillus phaseoli*), *Cydia* (*Carpocapsa*) *saltitans*, and eel-worm (*Aphelen-*

choides ribes) are declared to be diseases within the meaning of the Orchard and Garden Diseases Act, 1928. (*Serial Number 202/1937. The Orchard and Garden Diseases Act Extension Order, 1937*, Wellington, 1937, p. 763).

*** By special order made by the Pohangina County Council on 11 August, 1937 and published by the Minister of Agriculture on 21 October, 1937, goat's rue (*Galega officinalis*) has been declared to be a noxious weed in the said County. (*The New Zealand Gazette*, Wellington, October 28, 1937, Numb. 72, p. 2416).

*** By special order made by the Whangarei Borough Council on 29 November, 1937 and published by the Minister of Agriculture on 7 December, 1937, *Eupatorium glandulosum* has been declared to be a noxious weed in the said Borough. (*Ibid.*, December 9, 1937, Numb. 79, p. 2655).

*** By special order made by the Palmerston Borough Council on 23 December, 1937 and published by the Minister of Agriculture on 6 January, 1938, gorse (*Ulex europaeus*) and broom (*Cytisus scoparius*) are declared noxious weeds within the Borough of Palmerston. (*Ibid.*, January 13, 1938, Numb. 1, p. 23).

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Tunis. — A Decree of the Director of Economic Affairs and of the Director of Finance, dated 19 October, 1937, regulates the import, through the Babouch custom-house, of plants from Algeria.

The Decree of 15 February, 1937 [see this *Bulletin*, 1937, No. 6, p. 130] is abrogated. (*Journal Officiel Tunisien*, Tunis, 31 décembre 1937, 55^{e} année, n^{o} 105, p. 1606).

Uruguay. — By Decree No. 1493/937 of 1 December, 1937, the hunting of different species of birds is authorized with a view to protecting crops. (*Diario Oficial de la República Oriental del Uruguay*, Montevideo, 14 de diciembre 1937, tomo 129, núm. 9390, pág. 426-A).

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[Contains, *inter alia*: —
Libro primo: La canna da zucchero.
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Cap. XIII. Comportamento patologico della canna da zucchero determinato dal "mosaico" (pp. 104-107).
Cap. XXXIII-XXXVI. Malattie, insetti, mammiferi ed erbe nocivi alla canna da zucchero (pp. 285-330).
Libro secondo: Il banano.
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[The AA. have endeavoured to assemble in this paper all data available to date on the mycological flora of Italian East Africa, *i. e.*, the Myxomycetes and fungi reported in Eritrea, Italian Somaliland and in the former Ethiopian Empire. The total number of species listed is 683 divided into 256 genera. The total number of host plants reported in Ethiopia amounts to 302, divided into 176 genera.
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[This meeting, organized by the Society of Industrial Chemistry and the Centre of Technical Improvement, with the cooperation of the Society of Plant Pathology and Agricultural Entomology of France, the French Association of Manufacturers of Chemical Products for the Crop Protection, and the Professional Syndicate of Manufacturers of Fungicides and Insecticides of France, enabled a documentation of the highest technical and practical importance to be assembled on the subject studied.
This volume comprises the different reports presented and the resultant discussions which took place.
These reports are listed as follows:—
Les poudres cupriques: méthodes de fabrication et emploi, par J. Vinas.
Oxychlorures de cuivre, par A. Desrue et Lucain.
Bouille bordelaise caséinée, par J. Masselin.

Note statistique sur la consommation du sulfate de cuivre et du soufre en France et dans les autres principaux pays viticoles, par M. Vanroye et C. Collot.
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Le soufre noir, par J. Granjon.
Le soufre natif, par J. Lugan.
Le soufre colloïdal, par M. Lahaye.
Soufre mouillable, hydrogène sulfuré et sulfures, par R. Duprez.
Dérivés du soufre, par R. Duprez.
Les carbolinéums phytothéraupeutiques miscibles à l'eau ou huiles solubles d'anthracène, par F. Willaume.
Les huiles de pétrole dans la lutte contre les ennemis des cultures, par H. Renaut.
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La lutte contre le doryphore et l'étude des insecticides, par J. Feytaud.
Le carpocapse des prunes, par P. Bovey.
Le carpocapse ou « ver des pommes » en France (*Laspeyresia pomonella* L.). Nouvelles données biologiques et méthodes de lutte, par A. Balachowsky.
La destruction des limaces et autres Gastéropodes phytophages par le métaldéhyde, par A. Balachowsky.
La protection contre le pou de San José (*Aonidiella perniciosa* Comst.), par J. Bruneteau.
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NOTES

IVth International Congress of Compared Pathology. — This Congress will be held at Rome from 15 to 20 May, 1939.

A section of this Congress will be devoted to phytopathology.

All enquiries should be addressed to the Secretary General, Consiglio Nazionale delle Ricerche, piazzale delle Scienze, Rome.

Recommendation passed by the VIIIth Assembly of the International Institute for Beet Research. — The VIIIth Assembly of the International Institute for Beet Research (I. I. R. B.), held in Brussels from 26 to 28 January, 1938, made the following recommendation:— ' To continue research work on the virus yellows [see this *Bulletin*, 1936, No. 3, pp. 71-72], particularly in regard to its extent in the different beet-growing countries '.

Prof. ALESSANDRO BRIZI, *Segretario generale dell'Istituto, Direttore responsabile.*

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